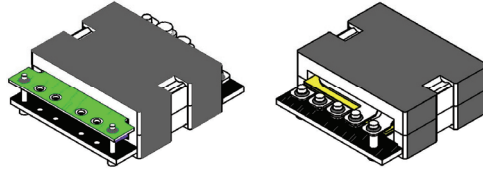


Planar Transformers

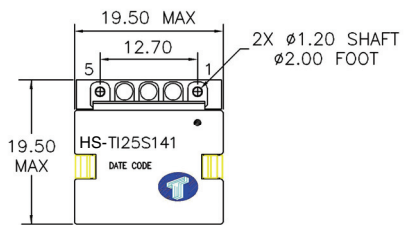
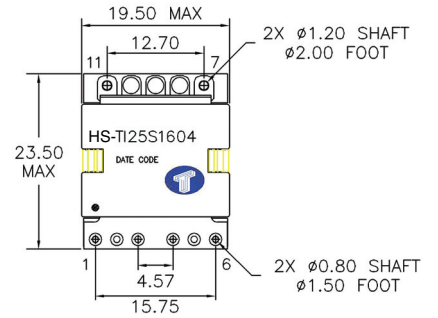
HS-TI25 SERIES

SMD High Current



FEATURES

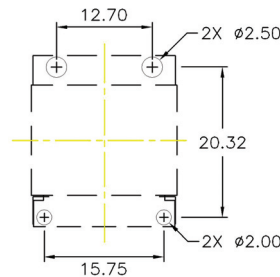
- High Thermal Efficiency & Energy Storage,
- High Current Rating Up to 73 Amps,
- Lower Profile of 7.4 mm Max.
- Wider Flexibility of Inductances
- Footprint 23.50 mm X 19.50 mm
- Operating Temperature -40° C to +130° C



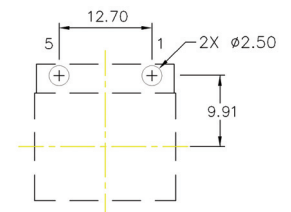
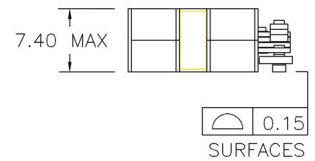
DESCRIPTION

The HS-TI25 series of planar transformers are optimised for DC/DC power supplies of high current. Due to a lead-free construction, they are able to offer high thermal efficiency and high current handling with the lowest DCR ratings. The main windings inductor serves as an output choke, while the auxiliary windings controls input current to the PWM (HS-TI25S1604).

Application also include power systems for telecommunications, industrial control systems, automotive and heavy equipment vehicle systems where desired to high density and high energy efficiency.

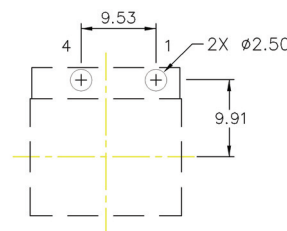


SUGGESTED PAD LAY-OUT

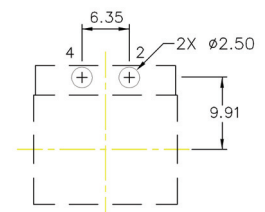


SUGGESTED PAD LAY-OUT

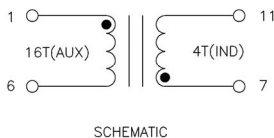
Weight 11.8 grams
Tape & Reel 200/reel
Tray.....40/tray



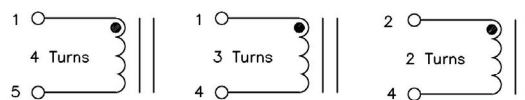
SUGGESTED PAD LAY-OUT



SUGGESTED PAD LAY-OUT



SCHEMATIC



SCHEMATIC

HS-TI25 SERIES



301 E. Arrow Highway, Suite 108
 San Dimas, CA 91773 USA
 Telephone: (909) 592-2234
 Fax: (909) 592-2231
 www.gei-inc.com

SMD High Current
 Planar Transformers

ELECTRICAL SPECIFICATIONS											
Part Number	Inductance ¹ @ 0 Adc (uH±10%)	Inductance ¹ @ Irated (uH±15%)	Irated ² A dc	DCR (mΩ Max)		Turns Ratio		Main Aux. Hi-Pot	Isaturation ³ (Amps)		Iheating ⁴ (Amps)
				Main	Aux	Main	Aux.		@25° C	@100° C	
HS-TI25S1604	2.10	2.00	30.0	2.0	1500	4	16	1500	45	40	37.0
2//2 Turns											
HS-TI25D221	0.46	0.45	73.0	0.40	N/A	2	N/A	N/A	95	80	73
HS-TI25D222	0.67	0.63	55.0	0.40	N/A	2	N/A	N/A	63	53	73
HS-TI25D223	0.90	0.85	39.0	0.40	N/A	2	N/A	N/A	46	37	73
HS-TI25D224	1.12	1.05	30.0	0.40	N/A	2	N/A	N/A	35	30	73
HS-TI25D225	1.35	1.25	25.0	0.40	N/A	2	N/A	N/A	29	26	73
HS-TI25D226	1.56	1.45	21.0	0.40	N/A	2	N/A	N/A	24	22	73
2 Turns											
HS-TI25S121	0.46	0.45	53.0	0.80	N/A	2	N/A	N/A	95	80	52
HS-TI25S122	0.67	0.63	52.0	0.80	N/A	2	N/A	N/A	63	53	52
HS-TI25S123	0.90	0.85	39.0	0.80	N/A	2	N/A	N/A	46	37	52
HS-TI25S124	1.12	1.05	30.0	0.80	N/A	2	N/A	N/A	35	30	52
HS-TI25S125	1.35	1.25	26.0	0.80	N/A	2	N/A	N/A	29	26	52
HS-TI25S126	1.56	1.45	22.0	0.80	N/A	2	N/A	N/A	24	22	52
3 Turns											
HS-TI25S131	1.00	0.95	42.0	1.20	N/A	3	N/A	N/A	68	54	42
HS-TI25S132	1.50	1.45	36.0	1.20	N/A	3	N/A	N/A	43	35	42
HS-TI25S133	2.00	1.95	25.0	1.20	N/A	3	N/A	N/A	29	25	42
HS-TI25S134	2.50	2.45	20.0	1.20	N/A	3	N/A	N/A	23	21	42
HS-TI25S135	3.00	2.85	15.0	1.20	N/A	3	N/A	N/A	18	16	42
HS-TI25S136	3.50	3.45	12.0	1.20	N/A	3	N/A	N/A	15	13	42
4 Turns											
HS-TI25S141	1.78	1.65	37.0	1.60	N/A	4	N/A	N/A	55	43	37
HS-TI25S142	2.66	2.45	30.0	1.60	N/A	4	N/A	N/A	35	27	37
HS-TI25S143	3.55	3.35	17.0	1.60	N/A	4	N/A	N/A	20	18	37
HS-TI25S144	4.45	4.00	14.0	1.60	N/A	4	N/A	N/A	16	15	37
HS-TI25S145	5.33	4.85	11.0	1.60	N/A	4	N/A	N/A	13	12	37
HS-TI25S146	6.21	5.80	9.0	1.60	N/A	4	N/A	N/A	11	10	37

NOTES:

1. Inductance of HS-TI25S1604 measured on Agilent/HP4284 between pins 7 & 11 at 100 kHz, 0.1 Vrms.
2. The Irated is either 85% of the Isaturation or the Iheating depending which is lower.
3. The Isaturation is the current which causes the inductance to drop by 15% of its nominal value.
4. The Iheating is the current which causes the temperature of the part to increase by approximately 45° C.